

ABSTRACT OF THE DISCLOSURE

A process is provided for the manufacture of a haloalkane by the reaction of carbon
5 tetrachloride with an olefin in the presence of dissolved catalytic copper compounds and a cosolvent.
A fraction of the catalyst and co-catalyst is recycled to the reactor. In a preferred application, the
olefin is ethene and the desired haloalkane is 1,1,1,3-tetrachloropropane, or the olefin is vinyl
chloride and the haloalkane is 1,1,1,3,3-pentachloropropane, or the olefin is 1,1-dichloroethene and
the haloalkane is 1,1,1,3,3,3-hexachloropropane, or the olefin is 2-chloropropene and the haloalkane
10 product is 1,1,1,3,3-pentachlorobutane. Other preferred implementations provide an efficient
continuous process.

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